FHWA REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification to the existing traffic control signal at the intersection of MD 2 and Earleigh heights Rd /Magothy Bridge Rd in Anne Arundel County Maryland. This modification is required because of widening along Earleigh Heights Rd. MD 2 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The existing phasing will be utilized.

The existing controller and loop detector amplifiers will be utilized.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY S.H.A. AND INSTALLED BY THE CONTRACTOR.

Quantity	Unit	Specification Section	Description
1	EA	813	30" x 36" R3-5 (R) sign - span wire mount
1	EA	813	30" x 36" R3-7 A sign ground mount
1	EA	816	Two-channel loop detector amplifier with time delay output with detector panel

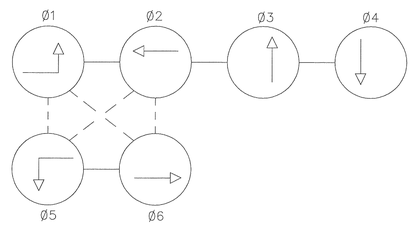
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

Quantity	Unit	Specification Section	Description
Lump Sum	LS	108	Mobilization
Lump Sum	LS	104	Maintenance of Traffic (traffic control)
Lump Sum	LS	402	Remove and salvage existing traffic signal equipment
150	SF	104	Temporary construction signs
495	LF	815	Saw cut
2	EA	811	Handhole
1320	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing
270	LF	810	2-conductor electrical cable (aluminum shielded)
100	LF	805	2" poly vinyl chloride electrical conduit (Schedule 80) - trenched
30	LF	805	1" liquid tight flexible non-metallic conduit for loop detector lead-in
5	LF	104	Preformed pavement marking - white, 24" wide for stop line
1	EA	104	"right-arrow" pavement marking tape-white
1	EA	104	"ONLY" pavement marking tape-white
200	LF	104	Preformed pavement marking - white, 5" wide for lane line
200	LF	104	Preformed pavement marking - double yellow, 5" wide for center line

CONSTRUCTION DETAILS

A. Install 1" flexible non-metallic electrical conduit for detector lead-in.
B. Install 6' x 30' quadrupole type vehicle loop detector (2-4-2 turns).
C. Install 6' x 6' vehicle loop detector encased in 1/4" flexible tubing (3 truns).
D. Use existing handhole.
E. Use existing conduit.
F. Disconnect existing loop detector.
G. Use existing base mounted cabinet.
H. Use existing span wire and install sign.
J. Install handhole on existing conduit. pull backs existing 2-conductor (aluminum shield) and rerun through new conduit.
K. Install right arrow-white.
L. Install handhole.
M. Install "ONLY"-white.
N. Install pavement marking - white 24" wide for stop line
O. Remove existing handhole.
P. Install 100ft of 5" pavement marking - white for lane line.
Q. Install ground mounted sign as shown (Note: see sign 25).
R. Install 2" (Schedule 80) polyvinyl chloride electrical conduit - trenched during construction.
S. Install 100ft of pavement marking -Double yellow 5" wide for center line
T. Cap and abandon existing conduit.

NEMA PHASING



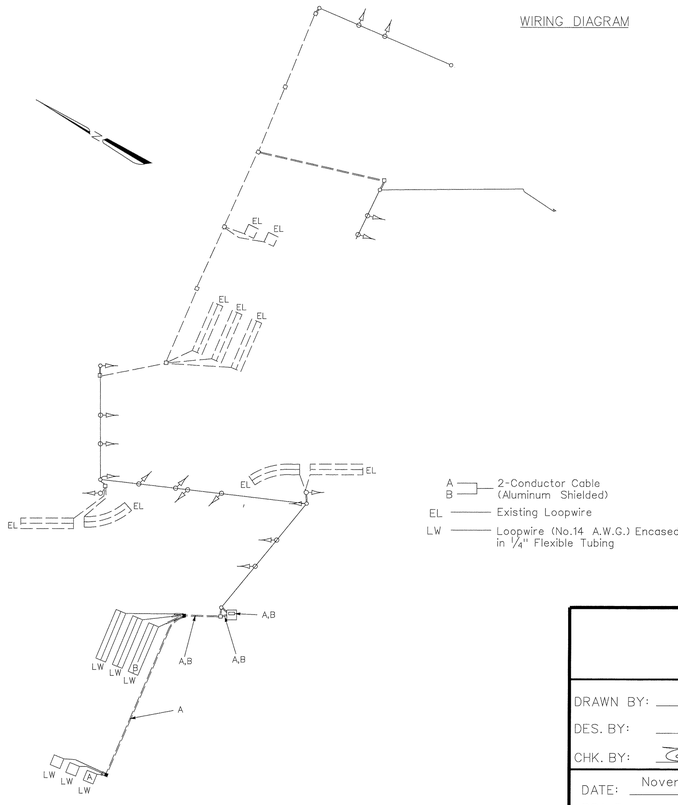
1.) Phases associated by a dashed line will operate concurrently.
2.) Phases associated by a solid line will not operate concurrently.

Flashing Operation

Fire house pre-emption

Ø8

WIRING DIAGRAM



A, B — 2-Conductor Cable (Aluminum Shielded)
EL — Existing Loopwire
LW — Loopwire (No.14 A.W.G.) Encased in 1/4" Flexible Tubing

The Traffic Group

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MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

DRAWN BY: M.A. MEARS
DES. BY: M.A. MEARS
CHK. BY: [signature] 12-5-96

GENERAL INFORMATION
MD 2 AT EARLEIGH HEIGHTS RD./ MAGOTHY BRIDGE RD.
COUNTY: ANNE ARUNDEL LOG MILE * 02000231.23

DATE: November 26,1995
SCALE: 1"=20'
F.A.P. NO.
S.H.A. NO. BW878M81

TS/STD. NO. 314G-GI
SHEET NO.